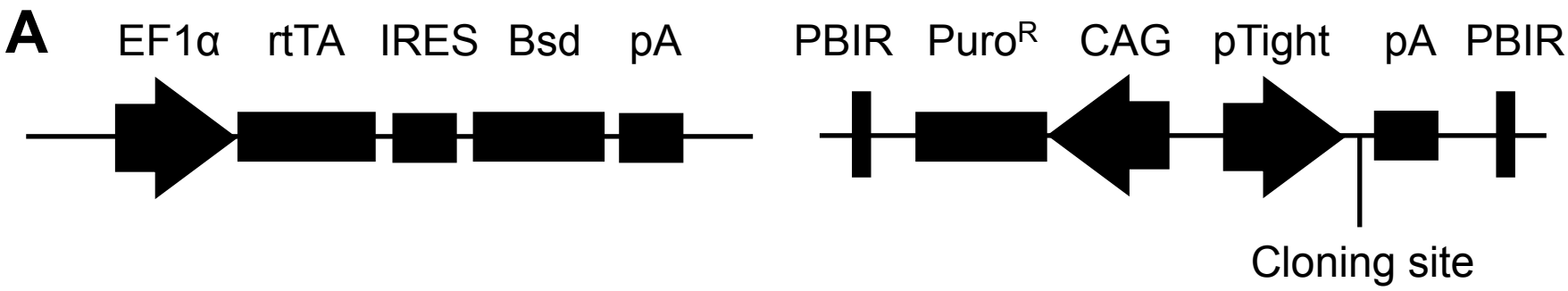
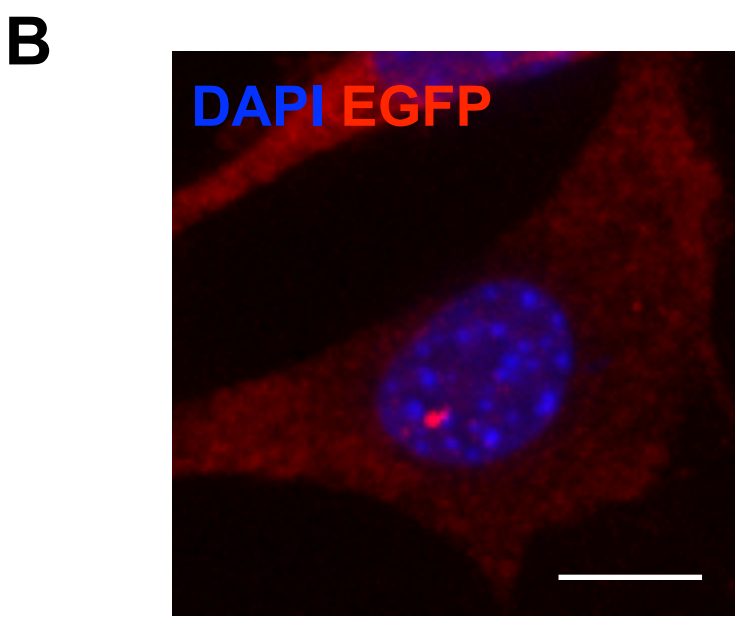
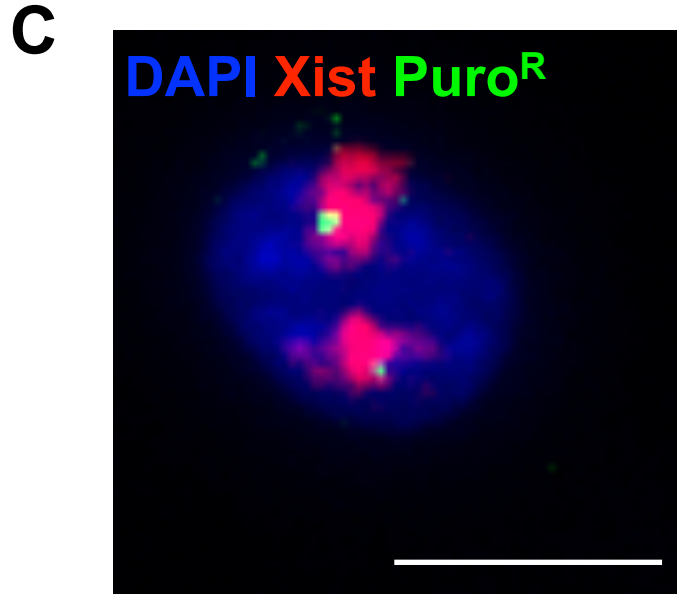
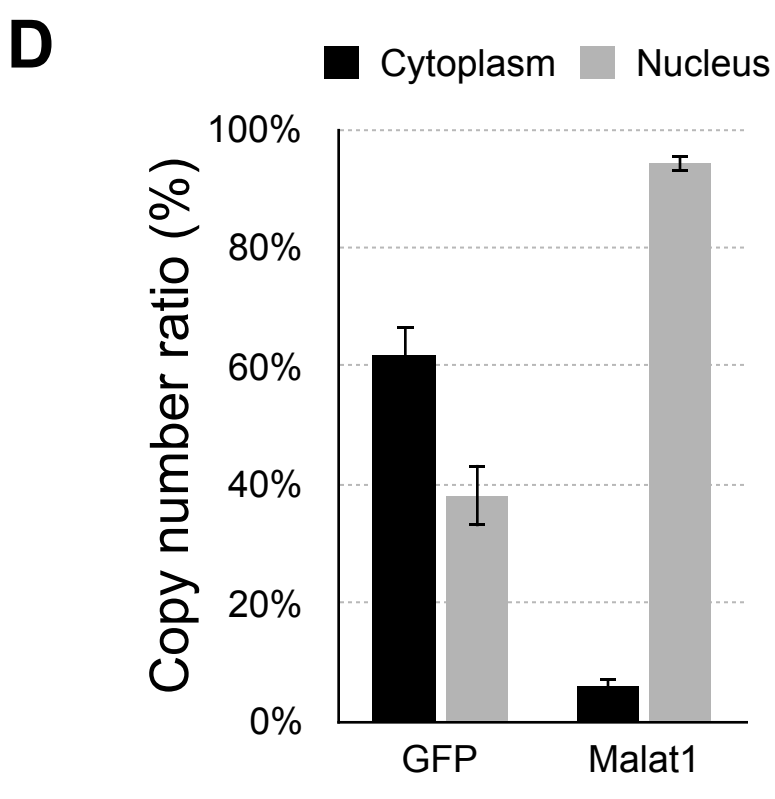
Figure S1


A
EF1α
rtTA
IRES
Bsd
pA
PBIR
Puro^R
CAG
pTight
pA
PBIR
Cloning site


B
DAPI EGFP


C
DAPI Xist Puro^R


D
Cytoplasm
Nucleus
Copy number ratio (%)
100%
80%
60%
40%
20%
0%
GFP
Malat1

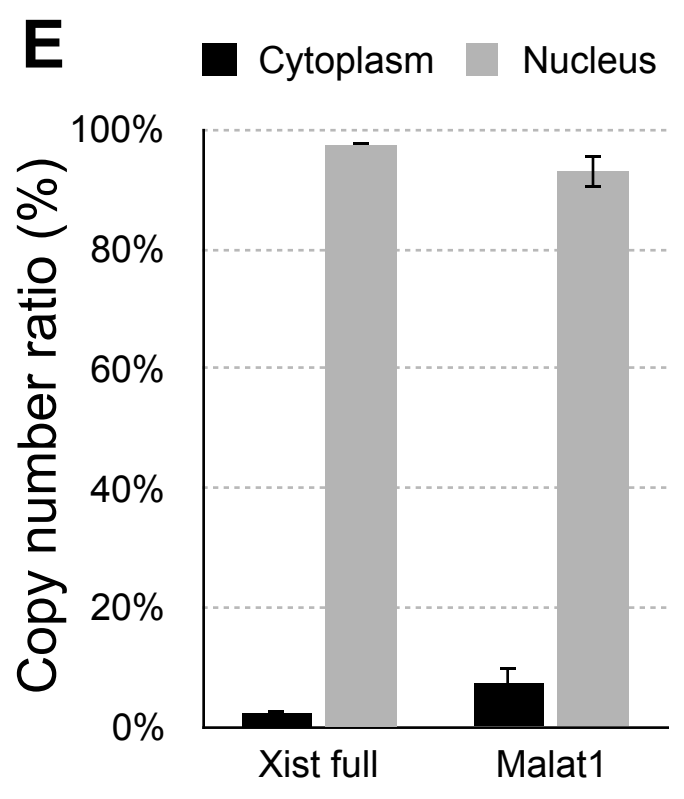

E
Cytoplasm
Nucleus
Copy number ratio (%)
100%
80%
60%
40%
20%
0%
Xist full
Malat1

Figure S2

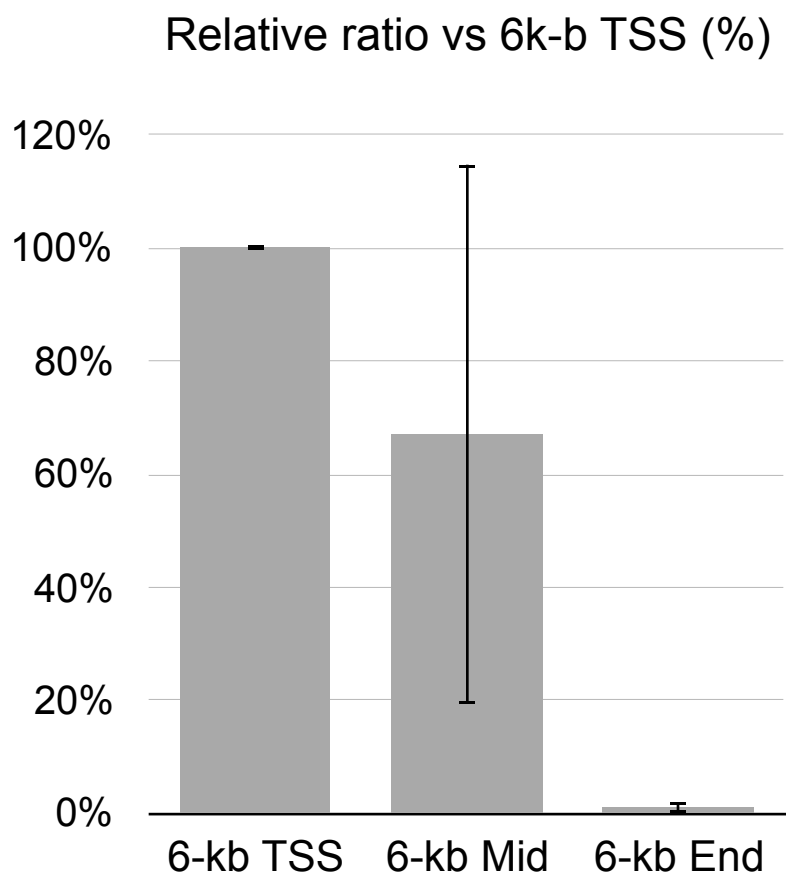

Relative ratio vs 6k-b TSS (%)
120%
100%
80%
60%
40%
20%
0%
6-kb TSS
6-kb Mid
6-kb End

Figure S3

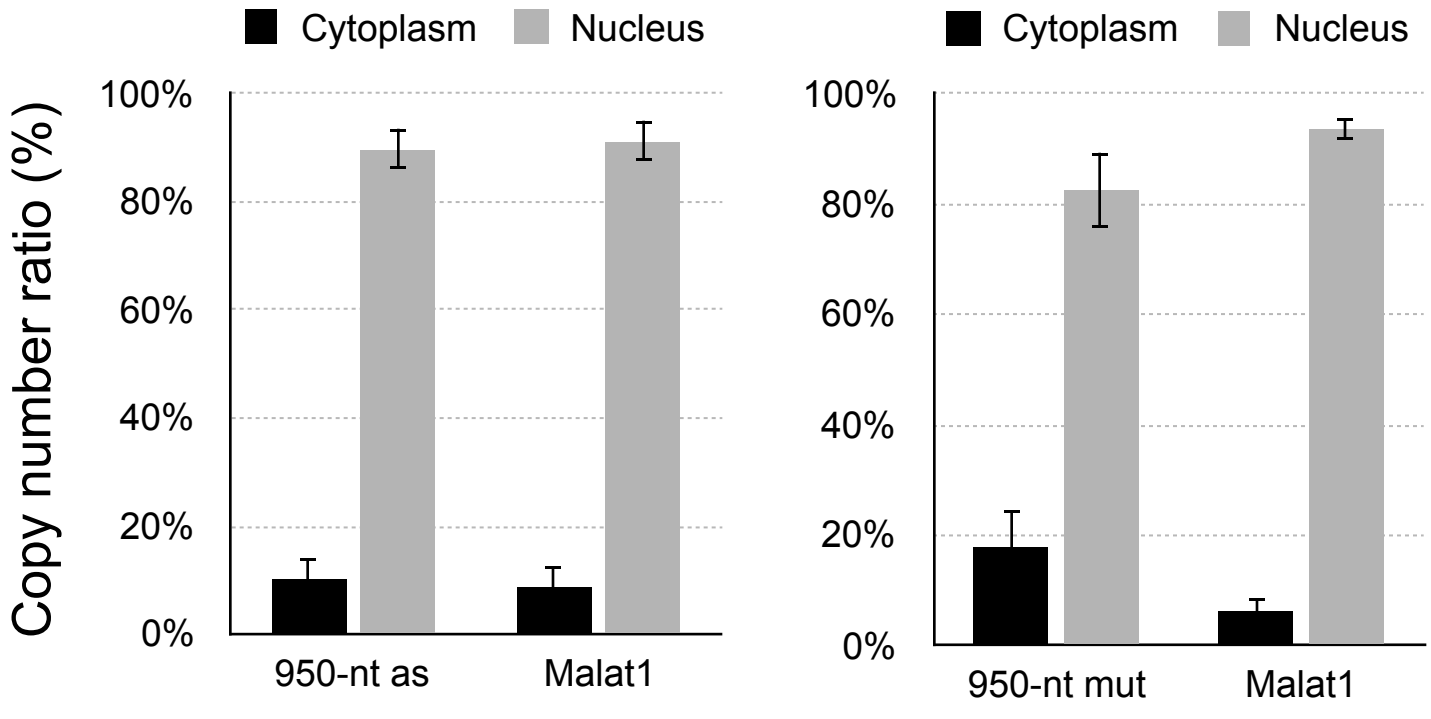
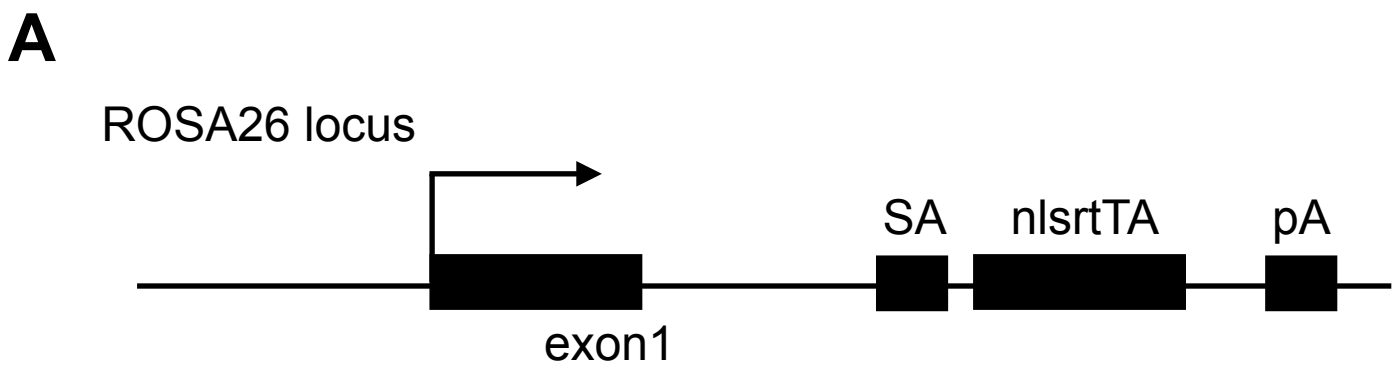
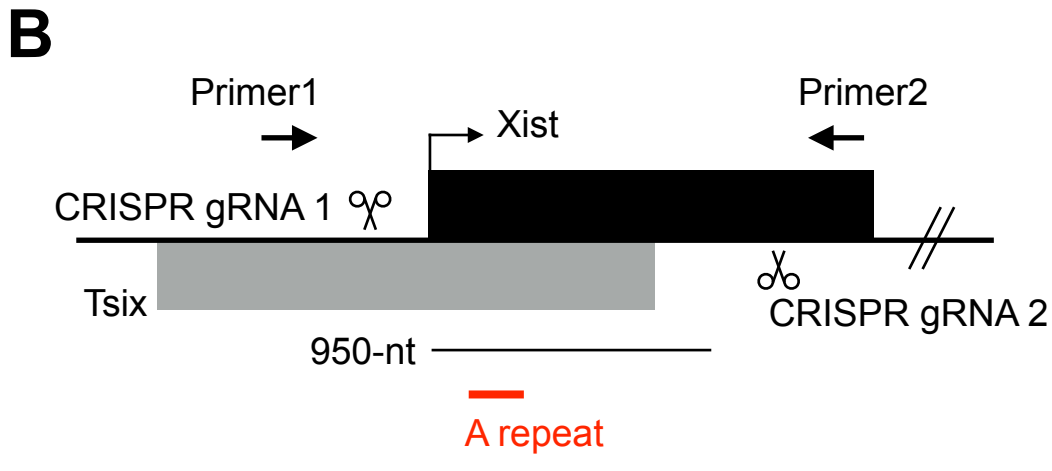
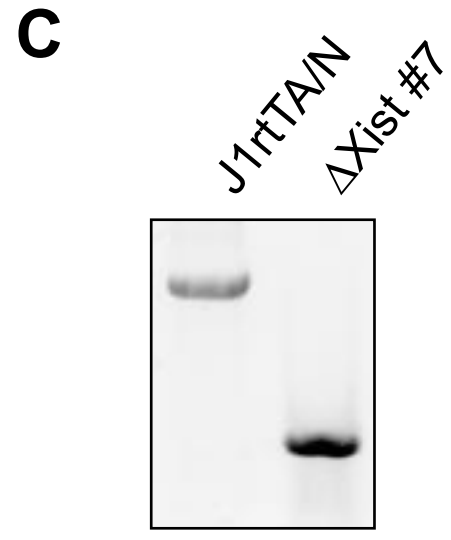

Cytoplasm
Nucleus
Copy number ratio (%)
100%
80%
60%
40%
20%
0%
950-nt as
Malat1
Cytoplasm
Nucleus
100%
80%
60%
40%
20%
0%
950-nt mut
Malat1

Figure S4


A
ROSA26 locus
SA
nlsrtTA
pA
exon1


B
Primer1
Xist
Primer2
CRISPR gRNA 1
Tsix
CRISPR gRNA 2
950-nt
A repeat


C
J1rtTA/N
ΔXist #7